

## Patent Abstracts of Japan

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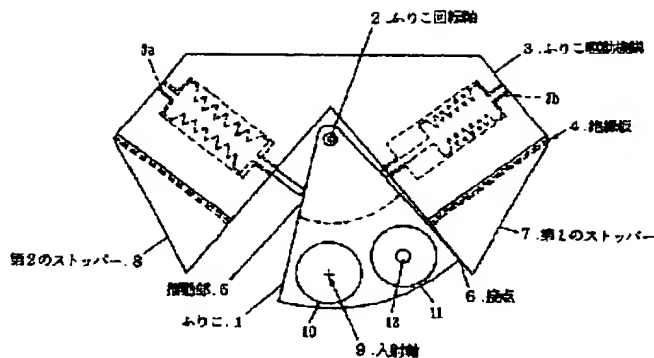
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APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : HAGA KOKICHI;

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TITLE : CHARGED PARTICLE BEAM  
CURRENT MEASURING APPARATUS  
SERVING ALSO AS BEAM SHUTTER



ABSTRACT : PURPOSE: To instantaneously and precisely align the aperture of a faraday cup with an axis of incidence in a charged particle beam current measuring apparatus serving also as a beam shutter.

CONSTITUTION: A charged particle beam current measuring apparatus includes a pendulum having one end journaled to a pendulum rotary shaft 2 and having a beam through hole and a Faraday cup 11 provided at the other end, bellows 3a, 3b for rotating the pendulum 1, a first stopper 7 for stopping rotation of the pendulum 1 at a position where the beam through hole 10 coincides with an axis 9 of incidence, a second stopper 8 for stopping rotation of the pendulum 1 at a position where the aperture 12 of the Faraday cup 11 coincides with the axis 9 of incidence, and contact acknowledge lamps 15a, 15b each of which is lighted on contact with the pendulum 1 and the first or second stopper.

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